

CLAIMS

1 1. An optic jumper comprised of:
2 a casing having an exposed end and a connector end;
3 and
4 an optical fiber having a first connector on a first
5 end and a second connector on a second end, wherein said
6 first connector and said second connector extend out from
7 said connector end.

1 2. The optical jumper according to claim 1 further
2 comprising:
3 a magnet carried by said casing for engaging a sensor
4 in a mounting device.

1 3. The optical jumper according to claim 2 wherein:
2 said magnet is located between said first connector
3 and said second connector.

1 4. The optical jumper according to claim 1 further
2 comprising:
3 a grip area on said exposed end of said casing.

1 5. The optical jumper according to claim 1 wherein:
2 said first connector and said second connector are
3 approximately 1 inch apart.

1 6. The optical jumper according to claim 1, wherein:
2 said first connector and said second connector are
3 between approximately $\frac{1}{2}$ and approximately $1\frac{1}{2}$ inches apart.

1 7. The optical jumper according to claim 1, wherein
2 said optical fiber has an inner bend radius greater than
3 approximately 0.4 inches.

1 8. The optical jumper according to claim 1, wherein
2 said optical fiber has an inner bend radius between
3 approximately 0.4 inches and 0.75 inches.

1 9. An optical add/drop system comprising:
2 a first WDM having a plurality of first fiber optic
3 lines for carrying monochromatic signals and at least one
4 first fiber optic line for carrying a polychromatic signal
5 extending therefrom;
6 a second WDM having a plurality of second fiber optic
7 lines for carrying monochromatic signals and at least one
8 second fiber optic line for carrying polychromatic signals
9 extending therefrom;
10 a first group of ports operatively connected to said
11 plurality of first fiber optic lines;
12 a second group of ports operatively connected to said
13 plurality of second fiber optic lines; and
14 at least one optical jumper having an optical fiber
15 with a first connector on a first end of the optical fiber
16 and a second connector on a second end of the optical
17 fiber, said first connector for connecting to at least one
18 of said first group of ports and a second connector for
19 connecting to at least one of said second group of ports
20 for facilitating optical communication between said at
21 least one first fiber optic line of said first WDM and said
22 at least one second fiber optic line of said second WDM.

1 10. The optical add/drop system according to claim 9
2 wherein:

3 said optical jumper has a casing having a connector
4 end; and

5 said first connector and said second connector extend
6 out from said connector end.

1 11. The optical add/drop system according to claim 9
2 further comprising:

3 a sensor proximate at least one of said first group of
4 ports and at least one of said second group of ports for
5 detecting a presence of an optical jumper proximate said
6 ports.

1 12. The optical add/drop system according to claim 11
2 wherein:

3 said sensor is a magneto-resistive device for sensing
4 the presence of magnet carried by said optical jumper.

1 13. The optical add/drop system according to claim 12
2 wherein:

3 said sensor is a Hall effect sensor for sensing the
4 presence of a magnet carried by said optical jumper.

1 14. The optical add/drop system according to claim 9
2 further comprising:

3 a means for sensing a presence of an optical jumper
4 proximate said ports.

1 15. The optical add/drop system according to claim 11
2 wherein:

3 said optical jumper has a magnet carried by said
4 casing for activating said sensor in the optical add/drop
5 device.

1 16. The optical add/drop system according to claim 15
2 wherein:

3 said magnet is located between said first connector
4 and said second connector.

1 17. The optical add/drop system according to claim 10
2 wherein:

3 said optical jumper has an exposed end having a grip
4 area on said exposed end of said casing.

1 18. The optical add/drop system according to claim 10
2 wherein:

3 said first connector and said second connector are
4 spaced approximately 1 inch apart.

1 19. The optical add/drop system according to claim
2 10, wherein:

3 said optical fiber has an inner bend radius of greater
4 than approximately 0.4 inches.

1 20. The optical add/drop system according to claim
2 10, wherein:

3 said optical fiber has an inner bend radius between
4 approximately 0.4 inches and 0.75 inches.

5 21. The optical add/drop system according to claim
6 10, wherein:

7 said optic jumper transmits an optical signal with an
8 optical loss of less than 0.75dB.

1 22. The optical add/drop system according to claim 10
2 further comprising:

3 an LED proximate at least one of said groups of ports
4 for indicating the presence of an optical jumper within
5 said ports.

1 23. A method of detecting a presence of an optical
2 jumper in an optical add drop device comprising the steps
3 of:

4 providing a magneto-resistive device proximate ports
5 on an optical jumper;

6 providing a magnet on said optical jumper;

7 installing said optical jumper in said ports; and

8 detecting a presence of said magnet with said magneto-
9 resistive device.

1 24. The method according to claim 23 further
2 comprising the step of:

3 indicating the presence of said optical jumper with an
4 indicator.